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Complete if Known Substitute for form 1449/PTO Application Number 10/648,767 INFORMATION DISCLOSURE 2003-08-25 Filing Date STATEMENT BY APPLICANT First Named Inventor LAROIA; Rajiv Art Unit 2618 (Use as many sheets as necessary) **Examiner Name** SOBUTKA, Philip Sheet 5 Attorney Docket No: 060571U2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	001	US4679244	07-07-1987	KAWASAKI; Ryoji et al.		
	002	US4833701	05-23-1989	COMROE; Richard A. et al.		
	003	US5128938	07-07-1992	BORRAS; Jaime A.		
	004	US5387905	02-07-1995	GRUBE; Gary et al.		
	005	US5461645	10-24-1995	ISHII; Junichi		
	006	US5506865	04-09-1996	WEAVER; Jr. lindsay A.		
	007	US5835847	11-10-1998	GILMORE; Robert P. et al.		
	008	US5898925	04-27-1999	HONKASALO; Et AL.		
	009	US6377955	04-23-2002	HARTMANN; Charles L. et al.		
	010	US6453151	09-17-2002	KIANG; T. ROGER. et al.		
	011	US6625133	09-23-2003	BALACHANDRAN; Krishna et al.		
	012	US6697417	02-24-2004	FERNANDEZ-CORBATON; Ivan et al.		
	013	US6967937	11-22-2005	GORMLEY; Eamonn		
	014	US7047009	05-16-2006	LAROIA; Rajiv et al.		
	015	US7164883	01-16-2007	RAPPAPORT; Theodore S. et al.		
	016	US7212821	05-01-2007	LAROIA; Rajiv et al.		
	017	US7277709	10-02-2007	VADGAMA; Sunil KESHAVJI.		
	018	US7668573	02-23-2010	LAROIA; Rajiv et al.		
	019	US20030023412	01-30-2003	RAPPAPORT; Theodore S. et al.		

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			U.S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2(if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	020	US20030207693	11-06-2003	RODERIQUE; William JOHN.	
	021	US20060073836	04-06-2006	LAROIA; Rajiv; et al.	
	022	US20060203765	09-14-2006	LAROIA; Rajiv; et al.	
	023	US20060205356	09-14-2006	LAROIA; Rajiv; et al.	
	024	US20060287743	12-21-2006	SAMPATH; Hemanth; et al.	
	025	US20070015541	01-18-2007	DOMINIQUE; Francis; et al.	
	026	US20080051086	02-28-2008	ETEMAD; Kamran; et al.	
	027	US20080159235	07-03-2008	SON; Jung-je; et al.	
	028	US20020012326	01-31-2002	CHANG; Yong	
	029	US20060128410	06-15-2006	DERRYBERRY; Thomas R.; et al.	
	030	US20060285481	12-21-2006	LANE; Frank A.; et al.	

FOREIGN PATENT DOCUMENTS	
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		Foreign Patent Document			Pages, Columns,		
Examiner Initials*	Cite No.1		Country Code ³⁻ Number ⁴⁻ Kind Code ⁵ (if known)	Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	031	DE10162564A1	07-03-2003	SIEMENS AG.		⊠	
	032	JP2001512921T	08-28-2001	Motorola Inc.		×	
	033	JP2003018641A	01-17-2003	NEC CORP.		Ø	
	034	KR20050021083A	03-07-2005	SAMSUNG ELECTRONICS CO LTD.		Ø	
	035	CN1265792	09-06-2000	Telefonaktiebolaget LM Ericsson		Ø	
	036	CN1316140	10-03-2001	Samsung Electronics Co., Ltd.		Ø	
	037	CN1507708	06-23-2004	Broadstorm Telecommunications, Inc.		Ø	
	038	EP1207645A1	05-22-2002	LUCENT TECHNOLOGIES INC [US]			
	039	JP06268574	09-22-1994	HITACHI LTD.		⊠	
	040	JP2007525045T	08-30-2007	Flarion Technologies, Inc.		Ø	
	041	KR1019990084525	12-06-1999	LG ELECTRONICS INC.		⊠	
	042	KR20040018526	03-03-2004	QUALCOMM Inc.		Ø	
	043	WO01035548	05-17-2001	ARRAYCOMM INC.			
	044	WO03094544A1	11-13-2003	NOKIA CORP [FI]			
	045	WO04084452	09-30-2004	ERICSSON TELEFON AB L M [SE]			
	046	WO2005069519	07-28-2005	INTERDIGITAL TECHNOLOGY CORPORATION.			

	NON PATENT LITERATURE DOCUMENTS	

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	047	(060571U1) Written Opinion, PCT/US2004/0005242 - International Search Authority - US - 06/14/06.	
	048	Hang Zhang et al, "Clean up for Closed-Loop MIMO in H-ARQ MAP IE", IEEE P802.16e/D7 Broadband Wireless Access Working Group http://ieee802.org/16 , PP. 1-6, 2010-03-10.	0
	049	IEEE P802.16e/D5: "Draft IEEE Standard for Local and metropolitan area networks, Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands", PP. 1-356, September 2004.	-
	050	IEEE P802.16e/D5: "Draft IEEE Standard for Local and metropolitan area networks, Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands", PP. 184-190, September 2004.	0

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